

## ABSTRACT

An ASE light source offers high outputs even in a wavelength band of 1,490 to 1,525 nm. The ASE light source  
5 outputs spontaneous emission light generated from Tm-doped optical fibers. Then, the ASE light source outputs amplified light obtained by using Er-doped optical fibers to amplify the output from the Tm-doped optical fibers and spontaneous emission light generated from the Er-doped  
10 optical fibers so that the amplified light and the spontaneous emission light are superimposed on each other.